12/20/02

TO EVA

CASE HAS SIGNED CLOSURE SUMMARY BUT NO RELOZO OF WELL DESTRUCTION

SUMMARY IN PUBLIC FILES
UNTIL OFFICERLY COSED.

To Chuek Headlee From: Susan Hugo

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

AGENCY INFORMATION

Date: April 6, 2000

Agency Name: Alameda County-HazMat

Address: 1131 Harbor Bay Parkway

City/State/Zip: Alameda, CA 94502

Phone: (510) 567-6700

Responsible Staff Person: Susan L. Hugo

Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Former Lerer Brothers Transmission Site Facility Address: 6340 Christie, Emeryville, CA 94608

RB LUSTIS Case No.: N/A Local Case No./LOP Case No. 1247

URF Filing Date: 11/24/98 SWEEPS No.: N/A

Responsible Parties:

Addresses: Phone Numbers:

Lerer Brothers Transmission Attn: Mr. Richard Gold

P.O. Box 117820

(650) 579-1919

Burlingame, CA 94011-7820

Tank No:

Size in gal.

Contents:

Closed in-place or removed?:

Date:

1

2000

Gasoline

Removed

2/5/88

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown

Date approved by oversight agency: 1/19/99

Number: Three (3)

Highest GW depth below ground surface 3.86'

Flow direction: Generally to the southeast

Are drinking water wells affected? NO

Is surface water affected? NO

Site characterization complete: YES

Monitoring wells installed? YES Proper screened interval? YES

Lowest depth: 5.08'

Most sensitive current use: Commercial

Aguifer Name: NA

Nearest affected SW name: NA

Off-site beneficial use impacts (address / location): Unknown

Report (s) on file? YES

Where is report (s) filed? Alameda County, 1131 Harbor Bay Parkway, Alameda, CA 94502

Treatment and Disposal of Affected Materials:

Materials

Amount (Include Units)

Action (Treatment /or Disposal w/ Destination)

Date

Tank Soil

1-2000 gallon Unknown

Disposed at H & H Ship Service, San Francisco, CA

2/5/88

Unknown

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program Page 2 of 4

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil	(ppm)	Water (ppb)			
•	Before*	After**	Before***	After***		
TPH gasoline		1,400	620,000	1,300		
Benzene	· •	<6.2	1,200	71		
Toluene	-	25	4,900	7.2		
Ethylbenzene	-	7.1	16,000	100		
Xylene	-	15	64,000	210		
MTBE		<6.2	<1,000	<10		

* No analytical results were submitted for the soil and groundwater samples collected subsequent to the tank removal in 1988.

** Soil sample collected from boring BH-A at 6 feet below ground surface (bgs) on 10/9/98.

*** Grab water sample collected from boring BH-A on 10/9/98.

****Represents water sample collected from monitoring well MW-1 on 10/22/99.

Comments (Depth of Remediation, etc.): See "Additional Comments" section.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Undetermined

Regional Board Basin Plan?

Does completed corrective action protect potential beneficial uses per the

Regional Board Basin Plan ? Undetermined

Does corrective action protect public health for current land use? YES

Site management requirements: Deed Restriction is required and an acceptable Risk Management Plan must be recorded for subject property.

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: Three wells are in the process of being closed due to property renovation.

Number Decommissioned: Three wells will be closed

Number Retained: None (Three wells in the process of closure)

List enforcement actions taken: NA

List enforcement actions rescinded: NA

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program Page 3 of 4

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Susan L. Hugo Signature:

Title: Hazardous Materials Specialist

Date: 4/27/00

Reviewed by:

Name: Don Hwang

Signature:

Title: Hazardous Materials Specialist

Name: Thomas Peacod

Title: Manager, LOP Program

Date:

VI. RWOCB NOTIFICATION

Date Submitted to RB:

RB Response:

RWOCB Staff Name: Chuck Headle

Title: Associate EngineeringGeologist

Date: 10/31/00

VII. ADDITIONAL COMMENTS, DATA, ETC.

The subject site is located in an urban, former industrial area of Emeryville. The site is bounded to the north by a neighboring commercial building, Christie Avenue to the west, parking lots to both east and south of the property. The building at the subject site is currently vacant. Lerer Brothers Transmission operated a heavy duty differential and transmission shop at the site from 1980 to 1998. A commercial electric / light supply business intends to occupy the building in the future.

On February 5, 1988, a 2000- gallon underground storage tank which stored unleaded gasoline was removed at the site. Soil and groundwater samples were collected following the tank removal. However, no records of the analytical results of the soil and groundwater sampling can be located.

On October 9, 1998, soil and groundwater investigation was conducted at the site. Five borings were drilled and soil samples were collected, one sample from each boring at depths ranging from 3.5 feet to 6.0 feet bgs. In addition, temporary PVC well casings were driven and grab water samples were collected from each boring. Sediments encountered during drilling generally consisted of up to three feet of debris-free silty clay fill overlying a sandy fill material containing wood and asphalt shingle roofing material, brick and rubber to the total depth of 8 feet bgs. It was reported that no native soil was encountered. Groundwater was encountered at 4 to 6 feet bgs and stabilized at 4 feet bgs in each boring. A hydrocarbon sheen appeared to be present in boring BH-A. Results of soil and groundwater sampling showed petroleum hydrocarbon contamination at the site (see Tables 1 and 2). Lead was detected in all the soil samples collected from the borings at concentration ranging from 11 parts per million (ppm) to 310 ppm.

On January 21, 1999, additional site characterization was conducted which involved the installation of three shallow groundwater monitoring wells. Sediments encountered during drilling consisted of silty, gravelly sand with debris such as tar, tar paper, roofing shingle material, railroad ties and railroad spikes. Groundwater was encountered between 3.7 and 6.5 feet bgs. Soil samples collected from 4.5 feet bgs in each boring showed low levels of petroleum hydrocarbon concentrations (see Table 3). Lead was detected in soil ranging from 49 ppm to 130 ppm but was non-detect in groundwater. Sheen was present in all the wells. Groundwater samples showed elevated levels of petroleum

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program Page 4 of 4

hydrocarbon contamination at the site. Groundwater flow direction beneath the site appeared to be to the south during this monitoring event and was not consistent with the westerly regional groundwater flow in the area.

The three shallow groundwater monitoring wells at the site were sampled on 3/29/99 and 7/20/99. Groundwater elevation slightly decreased in MW-1 and MW-2 but increased in MW-3 during the 7/20/99 sampling event. Groundwater flow direction was to the south (3/29/99 event)and southeast (7/2/0/99) direction, generally consistent with previous monitoring event. Petroleum hydrocarbon concentrations found in groundwater collected from the three wells appeared similar to previous results.

On October 22, 1999, two additional soil borings were drilled on the neighboring property to the south to determine the extent of groundwater contamination at the site. Soil borings BH-F and BH-G were drilled downgradient of the former tank area. Sediments encountered during drilling were similar to previously encountered materials (building debris at 3 feet to 7 feet bgs). Groundwater was encountered at 7 feet bgs. Grab water samples were collected from the two bore holes and three on site wells. Monitoring well MW-1 showed a slight increase in petroleum hydrocarbon concentration but decrease in MW-2 and MW-3. Grab water sample collected from boring BH-F and BH-G showed low levels of petroleum hydrocarbon (see Table 5).

This site is recommended for case closure as a low risk soil/groundwater case for the following rationale:

- 1) Aggressive source removal has occurred at the site. The UST was removed in 1988. Per notes in the file, two soil samples were collected following removal of the tank. The results (verbally communicated) showed 160 ppm and 180 ppm probably TPH gasoline in soil. No laboratory report was submitted.
- 2) The site has been adequately characterized. Two additional downgradient borings showed very low levels of petroleum hydrocarbon contaminants in the groundwater (see Table 5). In addition, it appears that the site and neighboring sites were filled with building materials at approximately 3 feet bgs. The subject site is surrounded by parking lots to the south (where the borings were drilled) and parking lots for the movie theater to the east. The fill materials at the site may have some contribution to the residual contaminants found in soil and groundwater at the site. Groundwater monitoring has been conducted and showed concentration of dissolved petroleum hydrocarbon. The extent of soil and groundwater contamination appeared to be adequately defined.
- 3) The dissolved petroleum hydrocarbon plume appears to be stable. The tank was removed in 1988. Approximately 10 ten to eleven years after the tank removal, soil and groundwater investigation was conducted. Groundwater beneath the site was sampled four times from 1/28/99 to 10/22/99.
- 4) No water wells, deeper drinking water wells, surface water or other sensitive receptors are likely to be impacted.
- 5) The site does not appear to present a significant risk to human health and the environment. Soil samples collected from borings BH-A to BH-E showed very low levels of benzene (0.011ppm) which is below the ASTM RBCA CAmodified Tier 1 RBSL value (0.133 ppm) for a 1E-06 (1 in 1,000,000) excess cancer risk using the exposure pathway "Soil -Volatilization to Outdoor Air", for a commercial / industrial receptor scenario. Groundwater samples collected from the well MW-1 showed benzene at 71.0 ppb which is also below the ASTM RBCA CA modified Tier 1 RBSL value (5,340 ppb) for a 1E-06 (1 in 1,000,000) excess cancer risk using the exposure pathway "Groundwater Volatilization to Outdoor Air", for a commercial / industrial receptor scenario. Using this conservative scenario and the current and future use of the subject site will remain commercial / industrial, the site does not appear to present a significant risk.
- 6) Deed restriction and risk management plans are required for site closure.

Summary of Chemical Analysis of SOIL Samples All results are in parts per million

Boring	Depth Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	мтве
BH-A	6.0'	1,400	< 6.2	25			< 6.2
вн-в	3.5'	< 1.0	0.0020	0.0083	0.012	0.16	< 0.0050
вн-С	4.0'	< 1.0	0.01	0.0050 منظ	ANTORUE		< 0.0050
вн-Д	4.0'	< 1.0	< 0.0050	< 0.0050	< 0.0050	0.0087	< 0.0050
BH-È	5.5'	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PRG		NE	1.4	880	230	320	NE

Notes:

Detectable concentrations are in bold.

Non-detectable concentrations are noted by the less than sign (<) followed by the detection limit.

PRG is the United States Environmental Protection Agency (US EPA) Region IX Preliminary Remediation Goal (PRG) for industrial soil.

NE = US EPA PRG is not established.

TABLE TWO
Summary of Chemical Analysis of GROUNDWATER Samples
All results are in parts per billion

Boring	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	МТВЕ	
BH-A	620,000	1,200	4,900	16,000	64,000	< 1,000	
вн-в	40,000	280	110	3,200	6,400	< 250	
вн-С	18,000	5 6	280	150	120	< 50	
BH-D	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	
вн-Е	< 50*	< 0.5	< 0.5	< 0.5	1.2	< 5.0	
DTSC MCL	NE	1.0	150	700	1,750	35**	

Notes:

DTSC MCL is the California Department of Toxic Substances Control maximum contaminant level for drinking water.

NE = DTSC MCLs is not established.

- * = Hydrocarbons uncharacteristic of gasoline detected in gasoline range at 98 parts per billion.
- ** = DTSC interim action level for drinking water. MCL not established.

Detectable concentrations are in bold.

TABLE THREE Summary of Chemical Analysis of SOIL Samples All results are in parts per million

Boring	Depth Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	Total Lead
MW-I	4.5'	< 1′00*	< 6.2	< 6.2	13	27	< 6.2	130
MW-2	4.5'	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	49
MW-3	4.5'	< 1.2	< 0.005	< 0.005	0.0073	0.027	< 0.005	7 2
PRG		NE	0.62	520	230	210	NE	130

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold,

* = Hydrocarbons uncharacteristic of gasoline detected in the gasoline range at 1,500 parts per million.

PRG is the United States Environmental Protection Agency (US EPA) Region IX Preliminary Remediation Goal (PRG) for residential soil.

None of the hydrocarbon or lead concentrations detected during this assessment exceeded US EPA PRGs for residential soil.

TABLE FOUR
Groundwater Elevation Date

Well I.D.	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	1-28-99 3-29-99	10.00	4.85	5.15
•	7-20-99 10-22-99		4.85 5.08 5.08	5.15 4.92 4.92
MW-2	1-28-99 3-29-99	9.96	4.17 3.89	5.79
	7-20-99 1 0-22-99		4.30 4.36	6.07 5.66 5.60
MW-3	1-28-99 3-29-99	9.25	4.23 4.41	5.02 4.84
	7-20-99 1 0-22-99		3.86 3.94	5.39 5.31

TABLE FIVE
Certified Analytical Results of GROUNDWATER Samples All results are in parts per billion

Well ID & Dates	TDU			Ethyl-	Total		
Sampled	TPH-G	Benzene	Toluene	benzene	Xylenes	MTBE	Lead
<u>MW-1</u>							South
1-28-99	730	22	3.3	. 24		_	
3-29-99	950	37	5.7	24 27	61	< 5.0	< 5.0
7-20-99	970	40	5.4	67	60	< 5.0	
10-22-99	1,300	71	7.2	100	120 210	< 5.0 < 10	- -
MW-2						. 10	
1-28-99	710	20	180			2	•
3-29-99	500	8.6	44	14	67	< 5.0	< 5.0
7-20-99	510	8.4	44	4.3-	25	< 5.0	- -,
10-22-99	280	13	10	6.0 6.2	31 36	< 5.0	
MW-3			•	0.1	30	< 5.0	. - -
1-28-99	*	.0.5					
3-29-99	< 50*	< 0.5	< 0.5	< 0.5	0.69	< 5.0	< 5.0
7-20-99	130	1.9	8.2	1.4	7.1	< 5.0	
10-22-99	170	< 0.5	1.9	< 0.5	0.89	< 5.0	
10-22-99	70**	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	• •
BH-F	6 5	1.2	< 0.5	1.4	2.4	< 5.0	• •
BH-G	180**	< 1.0	< 1.0	1.5	9.1	< 10	
DHS MCL	NE .	1	150	700	1.750		
	7000			100	1,750	. 13	15
EPA METHOD	5030/ 8015M	8020	8020	8020	8020	8020	6010
					*		

Notes:

* = Hydrocarbons uncharacteristic of gasoline detected in the gasoline range at 68 ppb. ** = Hydrocarbons detected do not match a gasoline standard.

-- = Not analyzed

NE = DHS MCL not stablished

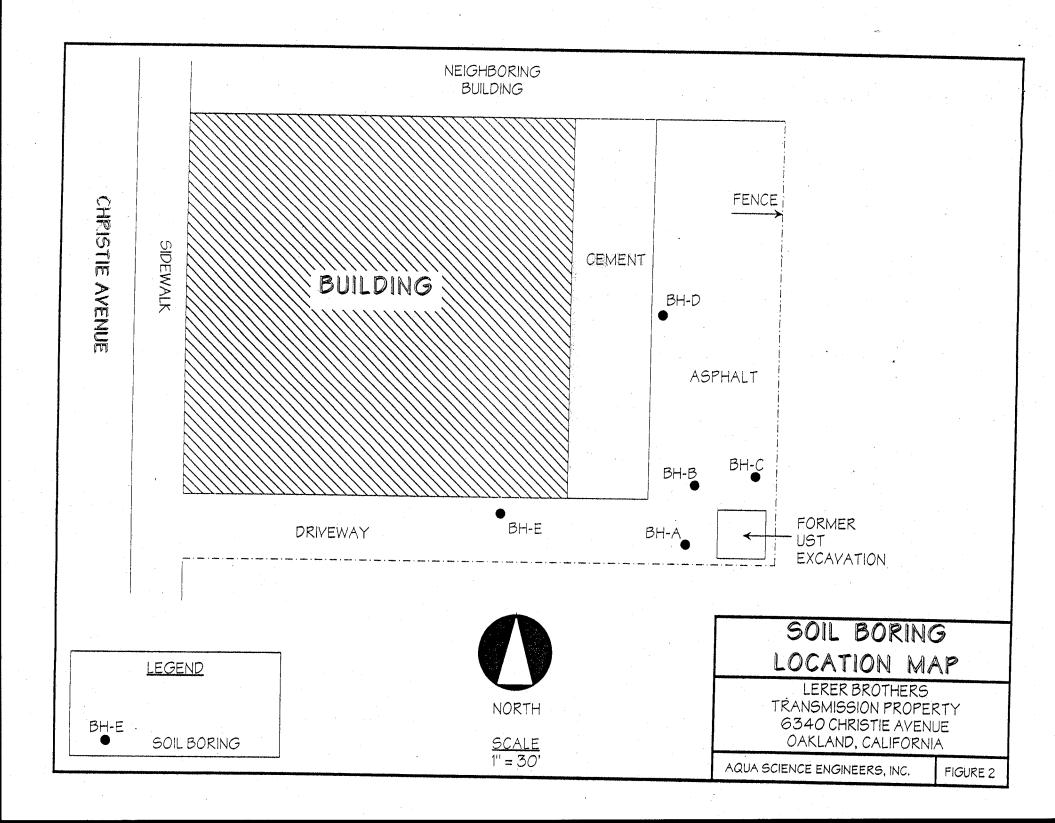
DHS MCL = Department of Health Services maximum contaminant level for drinking water. Non-detectable concentrations noted by the less than sign (<) followed by the laboratory detection SAN FRANCISCO BAY SITE STRADIO TOWER

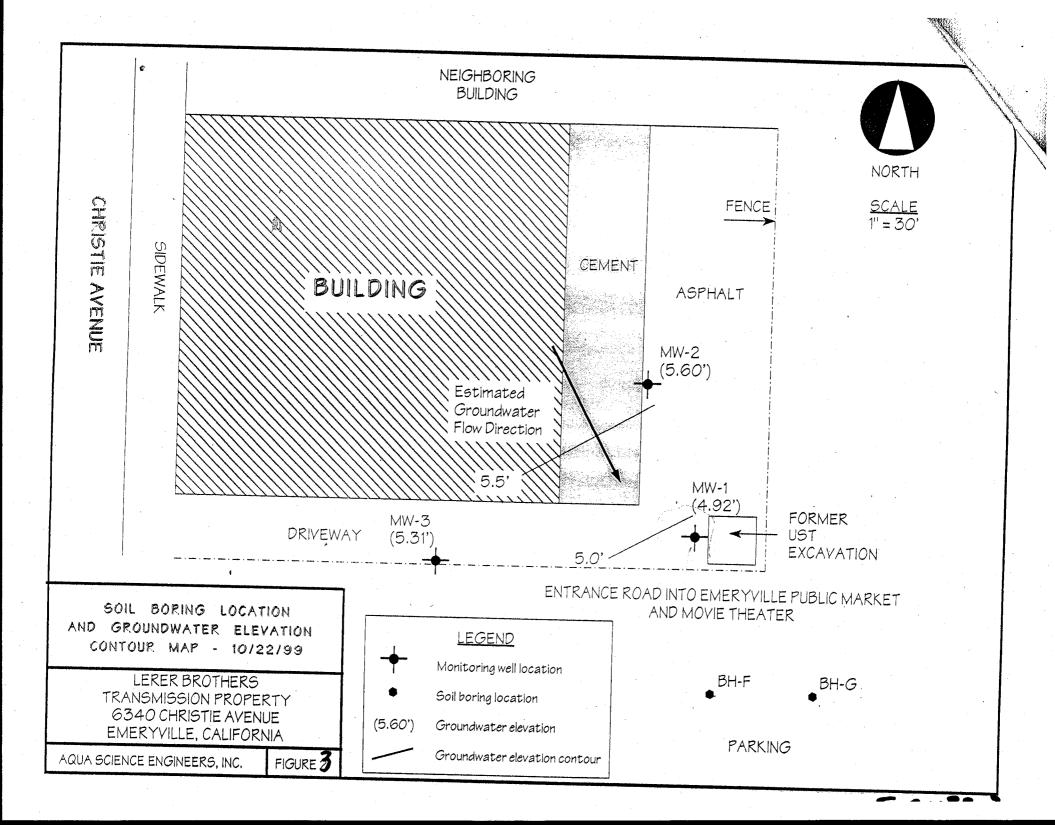
SITE LOCATION MAP

6340 Christie Avenue Emeryville, California

Aqua Science Engineers

Figure 1





SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS Well MW-1									
Project Name: Lerer Bros. Tra	ans. Projec	t Location	n: 634	40 Christie Ave., Emeryville, CA Page 1 of 1					
Driller: Kvilhaug Drilling, Conce	ord, CA T	ype of Ri	ig: Ho	ollow-Stem Auger Size of Drill: 8.0" Diameter					
Logged By: Greg Schramm	Date D	Orilled: J	Januar	ry 21, 1999 Checked By: Robert E. Kitay, R.G.					
WATER AND WELL DATA			Total I	Depth of Well Completed: 17.7'					
Depth of Water First Encountered	ed: 5.7'	\	Well S	Screen Type and Diameter: 2" Diameter PVC Casing					
Static Depth of Water in Well: 4	.76'		Well S	Screen Slot Size: 0.020"					
Total Depth of Boring: 18.0'		1	Туре	and Size of Soil Sampler: 2.0" I.D. Split-Barrel Sampler					
	ROCK SAMPLE	E DATA	Feet	DESCRIPTION OF LITHOLOGY					
Depth Description of Interval	Blow Counts OVM (ppmv) Nater Level	Graphic Log	Depth in F	standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.					
Street Bo	-1-1-1								
Bentonite Seaf 2" ID Blank Sch 40 PVC Monterey Sand Class "H" Portland Cement 20 Monterey Sand Class "Monterey Sand			10	Asphalt Silty SAND (SM); black; loose; wet; 80% fine to medium sand; 20% silt; non-plastic; medium estimated K; strong odor; sheen Railroad tie, 1' section of tar paper, Railroad spike Silty SAND (SM); black; loose; wet; 80% fine to medium sand; 20% silt; non-plastic; medium estimated K; strong odor; sheen Gravely SAND (SW); yellow brown; medium dense; wet; 70% fine to medium sand; 20% subangular pebbles to 0.03* diamater; 10% fines, non-plastic; medium estimated K; no odor End of Boring					
2.									
aqua science engineers, inc.									

SOIL BORING LOG AND MONIT	ORING WELL	CO	MPLETION DETAIL	LS Well MW-2						
Project Name: Lerer Bros. Trans. Project Location: 6340 Christie Ave., Emeryville, CA Page 1 o										
Driller: Kvilhaug Drilling, Concord, (CA Type o	f Rig:	Rig: Hollow-Stem Auger Size of Drill: 8.0" Diameter							
Logged By: Greg Schramm	Date Drilled:	Janua	ary 21, 1999	Checked By: Robert E. Kitay, R.G.						
WATER AND WELL DATA		Total	Depth of Well Comp	pleted: 17.7'						
Depth of Water First Encountered: 6.	50'	Well	Screen Type and Dia	ameter: 2" Diameter PVC Casing						
Static Depth of Water in Well: 4.17'		Well	Screen Slot Size: (0.020"						
Total Depth of Boring: 19.5'		Туре	and Size of Soil Sa	ampler: 2.0" I.D. Split-Barrel Sampler						
	SAMPLE DATA	Feet	DESC	CRIPTION OF LITHOLOGY						
Depth in Description Interval Blow Counts	Water Level Graphic Log	epth in	standard class density, stiffnes	sification, texture, relative moisture, ss, odor-staining, USCS designation.						
	5 8 0	Ω.								
Street Box Mell Screen Bentonite Seal 2" ID Blank Sch 40 PVC Well Screent Sand Class "H" Portland Cement 2" 2" 20 20 20 20 20 20 20 20 20 20 20 20 20		- 0 - 5 - 5 - 10 - 15 20	sand; 20% silt; traimated K; no odor Silty CLAY (CH); 5% silt; trace graestimated K; no od Predominately fill a stance with interlaand roof shingles trace sand and cla Clayey SILT (ML); stiff; damp; 75% siplasticity; low estin	material consisting of a soft tar sub- lyered fiberous material; sheet rock in a predominately silt matrix with y; wood; wet light brown and yellow brown; medium ilt; 20% clay; 5% fine sand; medium nated K; slight odor plive brown; dense; wet; 85% fine to silt; trace clay; non-plastic; medium						
		·								
	aqua science engineers, inc.									

	SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS Well MW-3								
	Project Name: Lerer Bros. Trans. Project Location: 6340 Christie Ave., Emeryville, CA Page 1 of 1								
	Driller: Kvilhaug Drilling, Concord, C	CA	Type of F	Rig: H	ollow-Stem Auger Size of Drill: 8.0" Diameter				
	Logged By: Greg Schramm	Date	Drilled:	Janu	ary 21, 1999 Checked By: Robert E. Kitay, R.G.				
	WATER AND WELL DATA			Total	Depth of Well Completed: 15'				
	Depth of Water First Encountered: 3.7	75'		Weil	Screen Type and Diameter: 2" Diameter PVC Casing				
	Static Depth of Water in Well: 4.23'			ı	Screen Slot Size: 0.020*				
	Total Depth of Boring: 15.0'			Туре	and Size of Soil Sampler: 2.0" I.D. Split-Barrel Sampler				
	SOIL/ROCK		PLE DATA	Feet	DESCRIPTION OF LITHOLOGY				
		Water Level	o hic	h in F	standard classification, texture, relative moisture				
	Depth in Interval Descript De	Vater	Graphic Log	Depth in	density, stiffness, odor-staining, USCS designation.				
l	Street Box	' >							
	— Locking Well Cap	,							
ļ				- 0	Asphalt				
-		∇		- -	Silty SAND (SM); black; stiff; damp; 85% fine to medium sand; 10% silt; 5% clay; low plasticity; low estimated K.				
-	20 Portland 6 52 6 6 52 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Ī	· · · · · · · · · · · · · · · · · · ·	- -	imated K; no odor Gravely SAND (SW); yellow brown; loose; damp;				
F	Blank Too			- 5	60% fine to medium sand; 30% subangular pebbles to 0.2" diameter; 10% fines, non-plastic; medium				
	2" ID			-	estimated K; slight hydrocarbon odor; rock				
F	O 50+			_					
	Sand at Seal			-10	Silty SAND (SM); grey; loose; wet; 70% fine to medium sand; 30% silt; trace clay; non-plastic; medium est-				
E				-	imated K; no odor; tar paper				
F	18 20			- -	Gravely SAND (SW); yellow brown, red; medium dense;				
F	Screen Bentoni 3 Washed Monterey			-15	wet; 60% fine to medium sand; 30% subangular pebbles to 0.1" diameter; 10% fines, non-plastic; medium				
-	Cree		F	-	estimated K; no odor Silty CLAY (CH); yellow brown; stiff; wet; 80% clay;				
F	0			-	15% silt; 5% very fine sand; high plasticity; very low estimated K; no odor				
F	20		F	-20					
	, (d b				End of Boring				
	Slotte								
	000								
	0.0								
	2" I.D. 0.020" Slotted PVC Well Screen								
				L	AQUA SCIENCE ENGINEERS INC				
	aqua science engineers, inc.								

SOIL BORNG: BH-F								
roject Name: Lerer Brothers	tion: 6	on: 6340 Christie Avenue, Emeryville, CA Page 1 of 1			Page 1 of 1			
Driller: Gregg Drilling	Type of Rig: F							
Logged By: Ian T. Reed	Date Drilled:	Octol	October 22, 1999 Checked By: Robert E. Kitay, R.G.					
WATER AND WELL DATA		Total	Depth of Wel	II Compl				
Depth of Water First Encountered: 7.0	•		Screen Type					
Static Depth of Water in Well: NA		1	Screen Slot S	,				
Total Depth of Boring: 12.0'		 				2.0" I.D. Macro	camples	
1 4	SAMPLE DATA	Feet						
	evel oir		standard			N OF LITHOLOG		
Descript Interval Blow Cour	Water Level Graphic Log	Depth in	density,	stiffnes	s, odo	n, texture, rela or-staining, USC	tive moisture, S designation.	
	3				<u> </u>			
Portland Cement		- 0 - - - - 5	low plasticity Sandy SILT 20% fine to	avel; 10 y; low e (ML); c medium	% fine estimate plive; constant	; damp; medium e to medium sa ed K; no odor damp; medium : ; 10% gravel; 5	nd; 5% clay;	
-1 0	Y	- - - - 10	building deb	w estiming ris (rubb); (MH);	ated K ber, ha black:	(; no odor ardened glue; pl wet; medium s low estimated k	astic)	
-		. F		End o	of borin	ng at 12.0'		
 -15	-	-				3 - 12.0		
_		15						
- -	-	.						
-								
- 20 -	-	20						
	F							
-25	F	25						
	-		•					
30		30						
			AQ	nua s	CIEN	CE ENGINEE	RS, INC.	

ING LOG AND MONITORING WELL COMPLETION DETAILS SOIL BORNG: BH-G Name: Lerer Brothers Project Location: 6340 Christie Avenue, Emeryville, CA Page 1 of 1 Gregg Drilling Size of Drill: 2" Diameter Macrocore Type of Rig: Power Push Checked By: Robert E. Kitay, R.G. Date Drilled: October 22, 1999 Logged By: Ian T. Reed Total Depth of Well Completed: NA WATER AND WELL DATA Depth of Water First Encountered: 7.0' Well Screen Type and Diameter: NA Static Depth of Water in Well: NA Well Screen Slot Size: NA Type and Size of Soil Sampler: 2.0" I.D. Macro sampler Total Depth of Boring: 12.0' SOIL/ROCK SAMPLE DATA Feet **DESCRIPTION OF LITHOLOGY** Counts (ppmv) Description Water Level Graphic Log .⊑ BORING Depth in Interval standard classification, texture, relative moisture, Depth **DETAIL** density, stiffness, odor-staining, USCS designation. MVO Blow 0 Asphalt Gravelly SILT (ML); olive; damp; medium stiff; 65% silt; 20% gravel; 10% fine to medium sand; 5% clay; low plasticity; low estimated K; no odor Sandy SILT (ML); black; damp; medium stiff; 65% silt; 20% fine to medium sand; 10% gravel; 5% clay; low plasticity; low estimated K; no odor building debris (rubber, hardened glue; plastic) Clayey SILT (MH); black; wet; medium stiff; 80% silt; 10 20% clay; high plasticity; low estimated K; no odor [Bay Mud] End of boring at 12.0' 15 20 -20 25 -30 -30 AQUA SCIENCE ENGINEERS, INC.